

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/911,569A

Source: IFW16

Date Processed by STIC: 4/27/05

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 04/27/2005

PATENT APPLICATION: US/09/911,569A

TIME: 13:16:52

Input Set : A:\32-95d.app

Output Set: N:\CRF4\04272005\I911569A.raw

SEQUENCE LISTING

```

4 (1) GENERAL INFORMATION:
6   (i) APPLICANT: HAWLEY-NELSON, PAMELA
7       LAN, JIANQING
8       SHIH, POJEN
9       JESSE, JOEL A.
10      SCHIFFERLI, KEVIN P.
11      GEBEYEHU, GULILAT
12      CICCARONE, Valentina C.
13      EVANS, Krista L.
15   (ii) TITLE OF INVENTION: PEPTIDE-ENHANCED TRANSFECTIONS
17   (iii) NUMBER OF SEQUENCES: 122
19   (iv) CORRESPONDENCE ADDRESS:
20       (A) ADDRESSEE: GREENLEE, WINNER & SULLIVAN
21       (B) STREET: 4875 Pearl East Circle, Suite 200
22       (C) CITY: BOULDER
23       (D) STATE: CO
24       (E) COUNTRY: US
25       (F) ZIP: 80301
27   (v) COMPUTER READABLE FORM:
28       (A) MEDIUM TYPE: Floppy disk
29       (B) COMPUTER: IBM PC compatible
30       (C) OPERATING SYSTEM: PC-DOS/MS-DOS
31       (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
33   (vi) CURRENT APPLICATION DATA:
C--> 34       (A) APPLICATION NUMBER: US/09/911,569A
C--> 35       (B) FILING DATE: 23-Jul-2001
W--> 41       (C) CLASSIFICATION:
38   (vii) PRIOR APPLICATION DATA:
39       (A) APPLICATION NUMBER: US 09/039,780
40       (B) FILING DATE: 16-MAR-1998-
43   (viii) ATTORNEY/AGENT INFORMATION:
44       (A) NAME: SULLIVAN, SALLY A.
45       (B) REGISTRATION NUMBER: 32,064
46       (C) REFERENCE/DOCKET NUMBER: 32-95D
48   (ix) TELECOMMUNICATION INFORMATION:
49       (A) TELEPHONE: (303)499-8080
50       (B) TELEFAX: (303)499-8089
53 (2) INFORMATION FOR SEQ ID NO: 1:
55   (i) SEQUENCE CHARACTERISTICS:
56       (A) LENGTH: 10 amino acids
57       (B) TYPE: amino acid
58       (C) STRANDEDNESS: not relevant

```

RAW SEQUENCE LISTING

DATE: 04/27/2005

PATENT APPLICATION: US/09/911,569A

TIME: 13:16:52

Input Set : A:\32-95d.app

Output Set: N:\CRF4\04272005\I911569A.raw

```

59          (D) TOPOLOGY: linear
61      (ii) MOLECULE TYPE: peptide
63      (iii) HYPOTHETICAL: NO
65      (iv) ANTI-SENSE: NO
70      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
72      His Ala Ile Arg Gly Asp Thr Phe Ala Thr
73      1          5          10
75 (2) INFORMATION FOR SEQ ID NO: 2:
77      (i) SEQUENCE CHARACTERISTICS:
78          (A) LENGTH: 7 amino acids
79          (B) TYPE: amino acid
80          (C) STRANDEDNESS: not relevant
81          (D) TOPOLOGY: linear
83      (ii) MOLECULE TYPE: peptide
85      (iii) HYPOTHETICAL: NO
87      (iv) ANTI-SENSE: NO
92      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
94      Pro Lys Lys Lys Arg Lys Val
95      1          5
97 (2) INFORMATION FOR SEQ ID NO: 3:
99      (i) SEQUENCE CHARACTERISTICS:
100          (A) LENGTH: 8 amino acids
101          (B) TYPE: amino acid
102          (C) STRANDEDNESS: not relevant
103          (D) TOPOLOGY: linear
105      (ii) MOLECULE TYPE: peptide
107      (iii) HYPOTHETICAL: NO
109      (iv) ANTI-SENSE: NO
114      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
116      Pro Lys Lys Lys Lys Arg Lys Val
117      1          5
119 (2) INFORMATION FOR SEQ ID NO: 4:
121      (i) SEQUENCE CHARACTERISTICS:
122          (A) LENGTH: 20 amino acids
123          (B) TYPE: amino acid
124          (C) STRANDEDNESS: not relevant
125          (D) TOPOLOGY: linear
127      (ii) MOLECULE TYPE: peptide
129      (iii) HYPOTHETICAL: NO
131      (iv) ANTI-SENSE: NO
134      (ix) FEATURE:
135          (A) NAME/KEY: Modified-site
136          (B) LOCATION: 2..20
137          (D) OTHER INFORMATION: /product= "OTHER"
138 /note= "ANY OR ALL OF THE AMINO ACIDS 2-20 CAN BE PRESENT OR
139 ABSENT"
142      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
144      Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
145      1          5          10          15

```

RAW SEQUENCE LISTING

DATE: 04/27/2005

PATENT APPLICATION: US/09/911,569A

TIME: 13:16:52

Input Set : A:\32-95d.app

Output Set: N:\CRF4\04272005\I911569A.raw

```

147     Lys Lys Lys Lys
148         20
150 (2) INFORMATION FOR SEQ ID NO: 5:
152     (i) SEQUENCE CHARACTERISTICS:
153         (A) LENGTH: 20 amino acids
154         (B) TYPE: amino acid
155         (C) STRANDEDNESS: not relevant
156         (D) TOPOLOGY: linear
158     (ii) MOLECULE TYPE: peptide
161     (ix) FEATURE:
162         (A) NAME/KEY: Modified-site
163         (B) LOCATION: 2..20
164         (D) OTHER INFORMATION: /product= "OTHER"
165 /note= "ANY OR ALL OF THE AMINO ACIDS 2-20 CAN BE PRESENT OR
166 ABSENT"
169     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
171     Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg
172     1         5             10             15
174     Arg Arg Arg Arg
175         20
177 (2) INFORMATION FOR SEQ ID NO: 6:
179     (i) SEQUENCE CHARACTERISTICS:
180         (A) LENGTH: 40 amino acids
181         (B) TYPE: amino acid
182         (C) STRANDEDNESS: not relevant
183         (D) TOPOLOGY: linear
185     (ii) MOLECULE TYPE: peptide
188     (ix) FEATURE:
189         (A) NAME/KEY: Modified-site
190         (B) LOCATION: 3..40
191         (D) OTHER INFORMATION: /product= "OTHER"
192 /note= "ANY Lys-Arg PAIR FROM AMINO ACID 3-40 CAN BE PRESENT OR
193 ABSENT"
196     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
198     Lys Arg Lys Arg Lys Arg Lys Arg Lys Arg Lys Arg Lys Arg Lys Arg Lys Arg
199     1         5             10             15
201     Lys Arg Lys Arg Lys Arg Lys Arg Lys Arg Lys Arg Lys Arg Lys Arg Lys Arg
202     20         25             30
204     Lys Arg Lys Arg Lys Arg Lys Arg
205     35             40
207 (2) INFORMATION FOR SEQ ID NO: 7:
209     (i) SEQUENCE CHARACTERISTICS:
210         (A) LENGTH: 20 amino acids
211         (B) TYPE: amino acid
212         (C) STRANDEDNESS: not relevant
213         (D) TOPOLOGY: linear
215     (ii) MOLECULE TYPE: peptide
218     (ix) FEATURE:
219         (A) NAME/KEY: Modified-site

```

RAW SEQUENCE LISTING

DATE: 04/27/2005

PATENT APPLICATION: US/09/911,569A

TIME: 13:16:52

Input Set : A:\32-95d.app

Output Set: N:\CRF4\04272005\I911569A.raw

```

220      (B) LOCATION: 2..20
221      (D) OTHER INFORMATION: /product= "OTHER"
222 /note= "ANY OR ALL OF THE AMINO ACIDS 2-20 CAN BE PRESENT OR
223 ABSENT"
226      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
228      Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
229      1          5          10          15
231      Gly Gly Gly Gly
232      20
234 (2) INFORMATION FOR SEQ ID NO: 8:
236      (i) SEQUENCE CHARACTERISTICS:
237          (A) LENGTH: 7 amino acids
238          (B) TYPE: amino acid
239          (C) STRANDEDNESS: not relevant
240          (D) TOPOLOGY: linear
242      (ii) MOLECULE TYPE: peptide
244      (iii) HYPOTHETICAL: NO
246      (iv) ANTI-SENSE: NO
251      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
253      Gly Arg Gly Asp Ser Pro Cys
254      1          5
256 (2) INFORMATION FOR SEQ ID NO: 9:
258      (i) SEQUENCE CHARACTERISTICS:
259          (A) LENGTH: 23 amino acids
260          (B) TYPE: amino acid
261          (C) STRANDEDNESS: not relevant
262          (D) TOPOLOGY: linear
264      (ii) MOLECULE TYPE: peptide
267      (ix) FEATURE:
268          (A) NAME/KEY: Modified-site
269          (B) LOCATION: 1..20
270          (D) OTHER INFORMATION: /product= "OTHER"
271 /note= "ANY OR ALL OF THE AMINO ACIDS 1-20 CAN BE PRESENT OR
272 ABSENT"
275      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
277      Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
278      1          5          10          15
280      Lys Lys Lys Lys Arg Gly Asp
281      20
283 (2) INFORMATION FOR SEQ ID NO: 10:
285      (i) SEQUENCE CHARACTERISTICS:
286          (A) LENGTH: 19 amino acids
287          (B) TYPE: amino acid
288          (C) STRANDEDNESS: not relevant
289          (D) TOPOLOGY: linear
291      (ii) MOLECULE TYPE: peptide
296      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
298      Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys
299      1          5          10          15

```

RAW SEQUENCE LISTING

DATE: 04/27/2005

PATENT APPLICATION: US/09/911,569A

TIME: 13:16:52

Input Set : A:\32-95d.app

Output Set: N:\CRF4\04272005\I911569A.raw

```

301      Arg Gly Asp
304 (2) INFORMATION FOR SEQ ID NO: 11:
306   (i) SEQUENCE CHARACTERISTICS:
307       (A) LENGTH: 7 amino acids
308       (B) TYPE: amino acid
309       (C) STRANDEDNESS: not relevant
310       (D) TOPOLOGY: linear
312   (ii) MOLECULE TYPE: peptide
314   (iii) HYPOTHETICAL: NO
316   (iv) ANTI-SENSE: NO
321   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
323     Lys Phe Thr Ile Val Phe Cys
324       1           5
326 (2) INFORMATION FOR SEQ ID NO: 12:
328   (i) SEQUENCE CHARACTERISTICS:
329       (A) LENGTH: 12 amino acids
330       (B) TYPE: amino acid
331       (C) STRANDEDNESS: not relevant
332       (D) TOPOLOGY: linear
334   (ii) MOLECULE TYPE: peptide
336   (iii) HYPOTHETICAL: NO
338   (iv) ANTI-SENSE: NO
343   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
345     Cys Gly Trp Gly Pro Lys Lys Lys Arg Lys Val Gly
346       1           5           10
348 (2) INFORMATION FOR SEQ ID NO: 13:
350   (i) SEQUENCE CHARACTERISTICS:
351       (A) LENGTH: 26 amino acids
352       (B) TYPE: amino acid
353       (C) STRANDEDNESS: not relevant
354       (D) TOPOLOGY: linear
356   (ii) MOLECULE TYPE: peptide
358   (iii) HYPOTHETICAL: NO
360   (iv) ANTI-SENSE: NO
365   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
367     Gly Gly Tyr Gly Pro Lys Lys Lys Arg Lys Val Gly Gly Gly Gly Tyr
368       1           5           10           15
370     Gly Pro Lys Lys Lys Arg Lys Val Gly Gly
371       20           25
373 (2) INFORMATION FOR SEQ ID NO: 14:
375   (i) SEQUENCE CHARACTERISTICS:
376       (A) LENGTH: 6 amino acids
377       (B) TYPE: amino acid
378       (C) STRANDEDNESS: not relevant
379       (D) TOPOLOGY: linear
381   (ii) MOLECULE TYPE: peptide
383   (iii) HYPOTHETICAL: NO
385   (iv) ANTI-SENSE: NO
390   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

```